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Applicant: Arthur M. Krieg et al.
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For: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES

Examiner: Nita Minnifield
Art Unit: 1645

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 28 day of November, 2005.


Helen C. Lockhart

MAIL STOP AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

DECLARATION OF DR. ARTHUR KRIEG

I, Arthur Krieg, M.D. declare as follows:

1. I am an inventor of the above-identified patent application and I make this declaration in support of that application. I am currently Chief Scientific Officer of Coley Pharmaceutical Group, Inc, exclusive licensee of the technology from the University of Iowa.
2. At the time that Table 13 was added to the specification in October of 1997, I had performed several experiments testing panels of CpG oligonucleotides for the ability to induce IL-12. I have prepared a summary table including some of that data. It is attached hereto.

3. Each column of data in the table represents a different donor subject. The date of the experiment is indicated in the second row of the Table. Columns 11 and 13 include the data presented as experiment 1 and experiment 2 of Table 13, respectively.
4. I declare that all statements herein of my own knowledge are true and that all statements made on information and belief are believed to be true. I declare further that the statements were made with the knowledge that willful, false statements and the likes so made, are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of this document and any patent which may issue from the above-identified patent application.

Date: 11/28/05

Arthur Krieg
Dr. Arthur Krieg

		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
Date		9/4/96	9/17/96	9/19/96	9/27/96	10/7/96	11/22/96	11/22/96	5/22/97	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
ODN														
Cells		24	0	0	2	7	9	2	0	14	0	0	0	0
1456	5'TCAA@GTT				10	15.6								
1471	TCAA@GTT					15.6			16					
1585	GGGTCAACGTTGAGGGGG													
1745	5'TCATGAGCTTCTGAGTCT	50	62	5	0	30								
1758	TTCTCCAGCGTTCGCCAT	60	250	0	2		10	9						
1826	TCCATGACGTTCTCTGACGTT	60	65	0	65	30								
1833	TTCTCCAGCGTTCGTCGCCAT						92	78						
1834	TTCTCCAGCGGCGCAT						13	5.4						
1835	TTCTCCAGCGAGCGCCAT	60	0	0	140	10	10	1.8						
1836	TTCTCCAGCGGCGCCAT						8	4						
1840	TCCATGCGTTCTCTGCTGTT	70	55	200	500	70	58	8	150					
1841	TCCATAGCGTTCTTAGCGTT	110	15.6	40	500	200	12	3	62					
1842	TCGTGCGTGTCTCGCTTCTT	34	0	10	75	15.6	61	50						
1845	TCCATGAZGTTCTCTGAZGTT					15.6								
1894	TCCATGACGTTCTCTGACGTT	30	0	0	15	10								
1908	ATAATAGAGCTTCAAGCAAG		5	62	62									
1910	TCCATGACGTTCTCTGACGTT					14								
1911	TCCAGGACTTTCCTCAGGTT					14								
1933	TCCTGACGTTCCCTCGCGCT	50												
1934	TCCTGTGCTCTCTGCGCTCTGCGCT	50												
1944	TCCATGAGCTTCTCTGAGTCT	30	16	0	70	12								
1957	TCCATGAGCTTCTCTGAGTCT					10								
1958	TCAA@GTT					10								
1959	TCAA@GTT					10								
1960	TCCTGTGCTCTCTGCTGTT					15.6	20	14						
1961	TCCATGTGCTTTTGTGCTT					15.6	20	27						
1962	TCCTGTGCTCTCTGTGCTT					14	13	10		11	3	19	0	0
1965	TCCTGTGCTTTTGTGCTT									21	20	36	0	2
1967	TCGTGCTGTCTGCCCTTCTT									41	15	41	4	0
1968	TCGTGCTGTGTGCTTCTT								16	0	1	24	0	0
1971	GGGGTCTGTGCTTTTGGGGG								7					
1972	GGGGTCTGTGCTTTTGGGGG								0					
1982	TCAGGACTTCTCTCAGGTT									0	3	3	0	0
2005	TCGTGCTGTGCTTGTGCTT									0	10	25	0	0
2006	TCGTGCTTTTGTGCTTTTGTGCTT									4	5	29	0	15
2014	TCGTGCTGTGCTTGTGCTT									4	12	28	10	0

2015	TEGTEGTEGTEGTT					0	11	14	0	0
2016	TGTEGTTGTEGTT					0	2	3	0	0

Note: this table has not been QC'd!
No entry in a position in the table means not done